09/724,613

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=> s releas? (10a) nucleic acid?
   3 FILES SEARCHED...
L2          5157 RELEAS? (10A) NUCLEIC ACID?

=> s l2 and cationic surfactant?
L3            20 L2 AND CATIONIC SURFACTANT?

=> s l3 and protease
L4             4 L3 AND PROTEASE

=> s l4 and salt
L5             4 L4 AND SALT

=> s l5 and buffer
L6             4 L5 AND BUFFER

=> d l6 bib abs 1-4

L6   ANSWER 1 OF 4  WPIDS  COPYRIGHT 2004 THE THOMSON CORP on STN
AN   2003-370730 [35]   WPIDS
DNC  C2003-098150
TI   Obtaining nucleic acid from biological sample and binding it to solid
     phase, by contacting sample with disrupting buffer comprising
     protease and cationic surfactant, and binding
     nucleic acid to solid phase.
DC   B04 D16
IN   GREENFIELD, L; MONTESCLAROS, L
PA   (GREE-I) GREENFIELD L; (MONT-I) MONTESCLAROS L; (APPL-N) APPLERA CORP
CYC  1
PI   US 2002177139   A1 20021128 (200335)*      57
     US 6762027      B2 20040713 (200446)
ADT  US 2002177139 A1 CIP of US 2000-724613 20001128, US 2001-997169 20011128;
     US 6762027 B2 CIP of US 2000-724613 20001128, US 2001-997169 20011128
PRAI US 2001-997169       20011128; US 2000-724613       20001128
AN   2003-370730 [35]   WPIDS
AB   US2002177139 A UPAB: 20030603
     NOVELTY - Obtaining (M) nucleic acid from a biological sample and binding
     the nucleic acid to a solid phase, comprising contacting the biological
     sample with a disrupting buffer (I) containing a
     protease and cationic surfactant (II),
     optionally substantially neutralizing the cationic
     surfactant, and binding the nucleic acid to a solid phase, is new.
          DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
     kit comprising a protease, a cationic
     surfactant, and a second surfactant which neutralizes the
     cationic surfactant, or a protease, a
     cationic surfactant, a non-ionic surfactant which
     permits the binding of a nucleic acid to a solid phase in the presence of
     the protease and cationic surfactant, and a
     buffer with a high salt concentration.
          USE - The method and the kit are useful for isolating and
     releasing nucleic acids from biological
     samples, and binding the isolated nucleic acid to a
     solid phase.
          ADVANTAGE - The method and the kit reduce the time needed for sample
     preparation, decrease potential safety risks posed by multistep procedures
     that require repeated sample manipulation, and/or provide high integrity
     (i.e. minimally degraded) high molecular weight nucleic acid. The method
     and the kit also obviate the need for additional equipment to physically
     or mechanically disrupt tissue.
     Dwg.0/30
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L6 ANSWER 2 OF 4 USPATFULL on STN
AN 2004:151437 USPATFULL
TI Compositions and methods for nucleic acid extraction from biological samples
IN Weber, Scott A., St. Louis, MO, UNITED STATES
Douglas, Derek K., St. Louis, MO, UNITED STATES
Kreader, Carol, St. Louis, MO, UNITED STATES
PI US 2004115658 A1 20040617
AI US 2002-322103 A1 20021217 (10)
DT Utility
FS APPLICATION
LREP Donald R. Holland, Harness, Dickey & Pierce, P.L.C., 7700 Bonhomme, Suite 400, St. Louis, MO, 63105
CLMN Number of Claims: 94
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 1312
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods and compositions for extracting nucleic acids from a biological sample are provided. The extraction compositions contain a **protease** enzyme such as proteinase K at alkaline pH with little or no surfactant present. Extraction can be efficiently performed in 60 minutes or less at room temperature for certain mammalian tissue samples and at elevated temperatures for certain plant tissues.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 4 USPATFULL on STN
AN 2003:93148 USPATFULL
TI System and methods for mixing within a microfluidic device
IN Gallagher, Sean, Claremont, CA, UNITED STATES
Druyor-Sanchez, Roberta, Mesa, AZ, UNITED STATES
Chan, Yuk-Tong, Scottsdale, AZ, UNITED STATES
Dorris, David, Austin, TX, UNITED STATES
Dues, Lawrence, Chandler, AZ, UNITED STATES
De La Cerda, Alan Paul, Chandler, AZ, UNITED STATES
Simonson, Norb, Mesa, AZ, UNITED STATES
Anderson, Clifford Lynde Hunt, Tempe, AZ, UNITED STATES
Franciskovich, Phillip, Phoenix, AZ, UNITED STATES
Kahn, Peter Albert, Phoenix, AZ, UNITED STATES
PI US 2003064507 A1 20030403
AI US 2002-206841 A1 20020726 (10)
PRAI US 2002-395257P 20020711 (60)
US 2001-308169P 20010726 (60)
DT Utility
FS APPLICATION
LREP Robin M. Silva, Esq., DORSEY & WHITNEY, LLP, Suite 3400, Four Embarcadero Center, San Francisco, CA, 94111-4187
CLMN Number of Claims: 113
ECL Exemplary Claim: 1
DRWN 13 Drawing Page(s)
LN.CNT 3079
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides microfluidic systems comprising microfluidic chambers and mixers, and methods of use. The microfluidic chambers of the present invention comprise a flexible membrane which provides efficient mixing of the solution therein. The present invention also provides a microfluidic chamber in fluidic communication with a micro-disk and a microfluidic chamber comprising a shim such that and a contiguous gap is present between a sample fluid and the chamber membrane. The microfluidic systems find use in the decrease in time for

reactions occurring therein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 4 USPATFULL on STN
AN 2002:314662 USPATFULL
TI Compositions, methods, and kits for isolating nucleic acids using surfactants and proteases
IN Greenfield, Lawrence, San Mateo, CA, UNITED STATES
Montesclaros, Luz, Pittsburg, CA, UNITED STATES
PI US 2002177139 A1 20021128
US 6762027 B2 20040713
AI US 2001-997169 A1 20011128 (9)
RLI Continuation-in-part of Ser. No. US 2000-724613, filed on 28 Nov 2000, PENDING
DT Utility
FS APPLICATION
LREP Finnegan, Henderson, Farabow,, Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315
CLMN Number of Claims: 64
ECL Exemplary Claim: 1
DRWN 32 Drawing Page(s)
LN.CNT 2457
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to compositions and methods for isolating nucleic acids from biological samples, including whole tissue. The invention also provides kits for isolating nucleic acids from biological samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> s extract? (10a) nucleic acid?
   3 FILES SEARCHED...
L16      10430 EXTRACT? (10A) NUCLEIC ACID?

=> s l16 and protease
L17       2721 L16 AND PROTEASE

=> s l17 and surfactant
L18        497 L17 AND SURFACTANT

=> s l18 and cationic
L19        116 L18 AND CATIONIC

=> s l19 and cationic (4a) (surfactant? or detergent?)
L20         26 L19 AND CATIONIC (4A) (SURFACTANT? OR DETERGENT?)

=> s l20 and salt
L21         26 L20 AND SALT

=> dup rem l21
PROCESSING COMPLETED FOR L21
L22         26 DUP REM L21 (0 DUPLICATES REMOVED)

=> s l22 not l6
L23         24 L22 NOT L6

=> d l23 bib abs 1-24

L23  ANSWER 1 OF 24  USPATFULL on STN
AN     2004:273272  USPATFULL
TI     Modulators of body weight, corresponding nucleic acids and proteins, and
       diagnostic and therapeutic uses thereof
IN     Friedman, Jeffrey M., New York, NY, UNITED STATES
       Zhang, Yiying, New York, NY, UNITED STATES
       Proenca, Ricardo, Astoria, NY, UNITED STATES
       Maffei, Margherita, New York, NY, UNITED STATES
       Halaas, Jeffrey L., New York, NY, UNITED STATES
       Gajiwala, Ketan, New York, NY, UNITED STATES
       Burley, Stephen K., New York, NY, UNITED STATES
PI     US 2004213763      A1   20041028
AI     US 2003-730488     A1   20031208 (10)
RLI    Continuation of Ser. No. US 2000-736084, filed on 13 Dec 2000, ABANDONED
       Continuation of Ser. No. US 1995-485943, filed on 7 Jun 1995, PENDING
       Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995,
       GRANTED, Pat. No. US 6429290 Continuation-in-part of Ser. No. US
       1994-347563, filed on 30 Nov 1994, GRANTED, Pat. No. US 5935810
       Continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994,
       GRANTED, Pat. No. US 6001968
DT     Utility
FS     APPLICATION
LREP   KLAUBER & JACKSON, 411 HACKENSACK AVENUE, HACKENSACK, NJ, 07601
CLMN   Number of Claims: 9
ECL    Exemplary Claim: CLM-01-53
DRWN   61 Drawing Page(s)
LN.CNT 6764
AB     The present invention relates generally to the control of body weight of
       animals including mammals and humans, and more particularly to materials
       identified herein as modulators of weight, and to the diagnostic and
       therapeutic uses to which such modulators may be put. In its broadest
       aspect, the present invention relates to the elucidation and discovery
       of nucleotide sequences, and proteins putatively expressed by such
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nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight. The nucleotide sequences in object represent the genes corresponding to the murine and human ob gene, that have been postulated to play a critical role in the regulation of body weight and adiposity. Preliminary data, presented herein, suggests that the polypeptide product of the gene in question functions as a hormone. The present invention further provides nucleic acid molecules for use as molecular probes, or as primers for polymerase chain reaction (PCR) amplification, i.e., synthetic or natural oligonucleotides. In further aspects, the present invention provides a cloning vector, which comprises the nucleic acids of the invention; and a bacterial, insect, or a mammalian expression vector, which comprises the nucleic acid molecules of the invention, operatively associated with an expression control sequence. Accordingly, the invention further relates to a bacterial or a mammalian cell transfected or transformed with an appropriate expression vector, and correspondingly, to the use of the above mentioned constructs in the preparation of the modulators of the invention. Also provided are antibodies to the ob polypeptide. Moreover, a method for modulating body weight of a mammal is provided. In specific examples, genes encoding two isoforms of both the murine and human ob polypeptides are provided.

L23 ANSWER 2 OF 24 USPATFULL on STN
AN 2004:186705 USPATFULL
TI Neuroprotective methods and reagents
IN Mahanthappa, Nagesh K., Cambridge, MA, United States
PA Curis, Inc., Cambridge, MA, United States (U.S. corporation)
PI US 6767888 B1 20040727
AI US 1999-418221 19991014 (9)
RLI Continuation-in-part of Ser. No. US 1997-883656, filed on 27 Jun 1997, now abandoned
DT Utility
FS GRANTED
EXNAM Primary Examiner: Eyler, Yvonne; Assistant Examiner: Brannock, Michael
LREP Ropes & Gray LLP
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 4510
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB One aspect of the present application relates to a method for limiting damage to neuronal cells by ischemic or epoxic conditions, e.g., such as may be manifest by a reduction in brain infarct volume, by administering to an individual a hedgehog therapeutic or ptc therapeutic in an amount effective for reducing cerebral infarct volume.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 3 OF 24 USPATFULL on STN
AN 2004:178309 USPATFULL
TI Aza-benzazolium containing cyanine dyes
IN Haugland, Richard P., Eugene, OR, UNITED STATES
Yue, Stephen T., Eugene, OR, UNITED STATES
PI US 2004137475 A1 20040715
AI US 2003-683753 A1 20031013 (10)
RLI Division of Ser. No. US 2000-557275, filed on 24 Apr 2000, GRANTED, Pat. No. US 6664047
PRAI US 1999-131782P 19990430 (60)
US 1999-158859P 19991012 (60)
DT Utility
FS APPLICATION

LREP KOREN ANDERSON, MOLECULAR PROBES, INC., 29851 WILLOW CREEK ROAD, EUGENE, OR, 97402-9132
CLMN Number of Claims: 43
ECL Exemplary Claim: 1
DRWN 4 Drawing Page(s)
LN.CNT 3372
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Unsymmetrical cyanine dyes that incorporate an aza-benzazolium ring moiety are described, including cyanine dyes substituted by a **cationic** side chain, monomeric and dimeric cyanine dyes, chemically reactive cyanine dyes, and conjugates of cyanine dyes. The subject dyes are virtually non-fluorescent when diluted in aqueous solution, but exhibit bright fluorescence when associated with nucleic acid polymers such as DNA or RNA, or when associated with detergent-complexed proteins. A variety of applications are described for detection and quantitation of nucleic acids and detergent-complexed proteins in a variety of samples, including solutions, electrophoretic gels, cells, and microorganisms.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 4 OF 24 USPATFULL on STN
AN 2004:171921 USPATFULL
TI Method for isolating DNA
IN Gautsch, James W., Solana Beach, CA, UNITED STATES
Saghbini, Michael G., San Diego, CA, UNITED STATES
Lippman, David A., San Marcos, CA, UNITED STATES
Dana, Richard C., Escondido, CA, UNITED STATES
PA BIO101 (U.S. corporation)
PI US 2004132082 A1 20040708
AI US 2003-739963 A1 20031217 (10)
RLI Continuation of Ser. No. US 2001-863167, filed on 23 May 2001, PENDING Continuation of Ser. No. US 1997-937905, filed on 25 Sep 1997, GRANTED, Pat. No. US 6235501 Continuation of Ser. No. US 1995-388504, filed on 14 Feb 1995, ABANDONED
DT Utility
FS APPLICATION
LREP Lisa A. Haile, J.D., Ph.D., GRAY CARY WARE & FREIDENRICH LLP, Suite 1100, 4365 Executive Drive, San Diego, CA, 92121-2133
CLMN Number of Claims: 29
ECL Exemplary Claim: 1
DRWN 11 Drawing Page(s)
LN.CNT 1575
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention describes a method for the isolation of components from samples, particularly large molecular weight DNA from biological samples. The method involves the application of controlled oscillatory mechanical energy to the sample for short periods of time of about 5 to 60 seconds to lyse the sample and release the component(s) from the sample, followed by standard isolation methods. In preferred embodiments, the method includes the use of a spherical particle for applying the mechanical energy.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 5 OF 24 USPATFULL on STN
AN 2004:38627 USPATFULL
TI **Nucleic acid**-separating method and **nucleic acid-extracting** reagent
IN Fan, Kejun, Tokyo, JAPAN
PA JSR CORPORATION, Tokyo, JAPAN (non-U.S. corporation)
PI US 2004029166 A1 20040212

AI US 2003-627780 A1 20030728 (10)
PRAI JP 2002-220099 20020729
DT Utility
FS APPLICATION
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 807
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for purifying nucleic acids wherein objective nucleic acids are separated through solid-liquid separation by deposition of the nucleic acids onto a solid-phase carrier, via enzymatic treatment of a cell lysis solution, from a sample containing nucleated cells and the like, as well as a kit for carrying out the method.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 6 OF 24 USPATFULL on STN
AN 2003:337233 USPATFULL
TI Mutant genes in Familial British Dementia and Familial Danish Dementia
IN Ghiso, Jorge, Elmhurst, NY, United States
Vidal, Ruben, Great Neck, NY, United States
Frangione, Blas, New York, NY, United States
PA New York University, New York, NY, United States (U.S. corporation)
PI US 6670195 B1 20031230
AI US 2000-579012 20000526 (9)
PRAI US 1999-136238P 19990526 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Falk, Anne-Marie
LREP Venable LLP, Livnat, Shmuel
CLMN Number of Claims: 3
ECL Exemplary Claim: 1
DRWN 7 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 2973
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Two novel mutant amyloid protein precursors (ABriPP and ADanPP) and their amyloid peptides (ABri and ADan) associated with Familial British Dementia and Familial Danish Dementia, respectively, are disclosed. Genetic constructs comprising DNA encoding these proteins is used to produced transgenic mammals that are useful models for neurological diseases associated with amyloid deposits, neurofibrillary tangles, non-neuritic plaques, neuronal degeneration and behavioral deficits characteristic of dementia and other symptoms of the human diseases. These models are used for testing potential therapeutic agents and methods. Also provided is a DNA-based test for detecting the mutations, the mutant proteins and peptides, antibodies specific for the proteins and peptides. Immunoassays permit detection of the mutant proteins, particularly in affected brain tissue, or detection of an antibody specific for a mutant peptide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 7 OF 24 USPATFULL on STN
AN 2003:326924 USPATFULL
TI Aza-benzazolium containing cyanine dyes
IN Haugland, Richard P., Eugene, OR, United States
Yue, Stephen T., Eugene, OR, United States
PA Molecular Probes, Inc., Eugene, OR, United States (U.S. corporation)
PI US 6664047 B1 20031216

AI US 2000-557275 20000424 (9)
PRAI US 1999-158859P 19991012 (60)
US 1999-131782P 19990430 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Fredman, Jeffrey
LREP Anderson, Koren, Skaugset, Anton
CLMN Number of Claims: 55
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 3168
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Unsymmetrical cyanine dyes that incorporate an aza-benzazolium ring moiety are described, including cyanine dyes substituted by a **cationic** side chain, monomeric and dimeric cyanine dyes, chemically reactive cyanine dyes, and conjugates of cyanine dyes. The subject dyes are virtually non-fluorescent when diluted in aqueous solution, but exhibit bright fluorescence when associated with nucleic acid polymers such as DNA or RNA, or when associated with detergent-complexed proteins. A variety of applications are described for detection and quantitation of nucleic acids and detergent-complexed proteins in a variety of samples, including solutions, electrophoretic gels, cells, and microorganisms.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 8 OF 24 USPATFULL on STN
AN 2003:243864 USPATFULL
TI Adjuvant compositions
IN O'Hagan, Derek, Berkeley, CA, UNITED STATES
Valiante, Nicholas, Fremont, CA, UNITED STATES
PI US 2003170273 A1 20030911
AI US 2002-265083 A1 20021003 (10)
PRAI US 2001-326929P 20011003 (60)
US 2002-373547P 20020417 (60)
DT Utility
FS APPLICATION
LREP CHIRON CORPORATION, Intellectual Property - R440, P.O. Box 8097, Emeryville, CA, 94662-8097
CLMN Number of Claims: 75
ECL Exemplary Claim: 1
DRWN 10 Drawing Page(s)
LN.CNT 3618
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Adjuvant compositions comprising type 1 interferon inducers, such as double-stranded RNA, in combination with antigen delivery systems and/or immunostimulatory molecules, such as immunostimulatory nucleic acid sequences, for enhancing the immune response of a coadministered antigen, are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 9 OF 24 USPATFULL on STN
AN 2003:232637 USPATFULL
TI Bactericide, antiseptic, dermally applicable composition, washing composition, antibacterial fiber aggregate, method for eradicating a microorganism, and method for inhibiting the proliferation of a microorgamism
IN Yumioka, Ryosuke, Kanagawa, JAPAN
Nakanishi, Noriyuki, Kanagawa, JAPAN
Yokota, Hirofumi, Kanagawa, JAPAN
PA Ajinomoto Co., Inc., Tokyo, JAPAN (non-U.S. corporation)

PI US 2003162838 A1 20030828
AI US 2002-212733 A1 20020807 (10)
PRAI JP 2001-250557 20010821
DT Utility
FS APPLICATION
LREP OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH FLOOR, 1755 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1394
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A bactericide and an anticeptic comprises at least an amide group-containing guanidine derivative represented by General Formula (I) or a **salt** thereof: ##STR1##

wherein R.sup.1 and R.sup.2 are same or different and each denotes a hydrogen atom, a straight or branched alkyl group or alkenyl group having 1 to 4 carbon atoms, R.sup.3 denotes a straight or branched alkyl group or alkenyl group having 1 to 22 carbon atoms, and A denotes a straight or branched alkylene group or alkenylene group having 1 to 10 carbon atoms.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 10 OF 24 USPATFULL on STN
AN 2002:307826 USPATFULL
TI Method for isolating DNA
IN Gautsch, James W., Solana Beach, CA, UNITED STATES
Saghbini, Michael G., San Diego, CA, UNITED STATES
Lippman, David A., San Marcos, CA, UNITED STATES
Dana, Richard C., Escondido, CA, UNITED STATES
PA BIO 101, Inc., Carlsbad, CA, UNITED STATES, 92008 (U.S. corporation)
PI US 2002172949 A1 20021121
US 6706498 B2 20040316
AI US 2001-863137 A1 20010522 (9)
RLI Continuation of Ser. No. US 1997-937905, filed on 25 Sep 1997, GRANTED, Pat. No. US 6235501 Continuation of Ser. No. US 1995-388504, filed on 14 Feb 1995, ABANDONED
DT Utility
FS APPLICATION
LREP Thomas Fitting, Suite 300, 12526 High Bluff Drive, San Diego, CA, 92130
CLMN Number of Claims: 29
ECL Exemplary Claim: 1
DRWN 11 Drawing Page(s)
LN.CNT 1577
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention describes a method for the isolation of components from samples, particularly large molecular weight DNA from biological samples. The method involves the application of controlled oscillatory mechanical energy to the sample for short periods of time of about 5 to 60 seconds to lyse the sample and release the component(s) from the sample, followed by standard isolation methods. In preferred embodiments, the method includes the use of a spherical particle for applying the mechanical energy.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 11 OF 24 USPATFULL on STN
AN 2002:282977 USPATFULL
TI Ob polypeptides, modified forms and compositions thereto
IN Friedman, Jeffrey M., New York, NY, United States

Zhang, Yiying, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
PA The Rockefeller University, New York, NY, United States (U.S. corporation)
PI US 6471956 B1 20021029
AI US 1995-488225 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995 Continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994, now patented, Pat. No. US 5935810 Continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994, now patented, Pat. No. US 6001968
DT Utility
FS GRANTED
EXNAM Primary Examiner: Saoud, Christine J.
LREP Klauber & Jackson
CLMN Number of Claims: 45
ECL Exemplary Claim: 1
DRWN 65 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 7195
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of weight, and of the diagnostic and therapeutic uses to such modulators. In its broadest aspect, the present invention relates to the elucidation and discovery of nucleotide sequences, and proteins putatively expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight. The nucleotide sequences in object represent the genes corresponding to the murine and human ob gene, that have been postulated to play a critical role in the regulation of body weight and adiposity. Preliminary data, presented herein, suggests that the polypeptide product of the gene in question functions as a hormone. The present invention further provides nucleic acid molecules for use as molecular probes, or as primers for polymerase chain reaction (PCR) amplification, i.e., synthetic or natural oligonucleotides. In further aspects, the present invention provides a cloning vector, which comprises the nucleic acids of the invention; and a bacterial, insect, or a mammalian expression vector, which comprises the nucleic acid molecules of the invention, operatively associated with an expression control sequence. Accordingly, the invention further relates to a bacterial or a mammalian cell transfected or transformed with an appropriate expression vector, and correspondingly, to the use of the above mentioned constructs in the preparation of the modulators of the invention. Also provided are antibodies to the ob polypeptide. Moreover, a method for modulating body weight of a mammal is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 12 OF 24 USPATFULL on STN
AN 2002:227970 USPATFULL
TI Cutinase variants
IN Svendsen, Allan, Horsholm, DENMARK
Glad, Sanne O. Schroder, Ballerup, DENMARK
Fukuyama, Shiro, Chiba, JAPAN
Matsui, Tomoko, Chiba, JAPAN
PA Novozymes A/S, Bagsvaerd, DENMARK, 2880 (non-U.S. corporation)
PI US 2002123123 A1 20020905
AI US 2001-873075 A1 20010601 (9)
PRAI DK 2000-861 20000602
DK 2000-1577 20001023
DK 2000-1772 20001124
DK 2001-100 20010119
US 2000-211004P 20000612 (60)

PI US 2000-244351P 20001030 (60)
US 2000-253798P 20001129 (60)
US 2001-265473P 20010131 (60)
DT Utility
FS APPLICATION
LREP NOVOZYMES NORTH AMERICA, INC., C/O NOVO NORDISK OF NORTH AMERICA, INC., 405 LEXINGTON AVENUE, SUITE 6400, NEW YORK, NY, 10174
CLMN Number of Claims: 32
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1260
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Variants of fungal cutinases having improved thermostability comprise substitution of one or more specified amino acid residues and/or a specified N-terminal extension. The variants may optionally comprise additional alterations at other positions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 13 OF 24 USPATFULL on STN
AN 2002:199102 USPATFULL
TI Modulators of body weight, corresponding nucleic acids and proteins, and diagnostic and therapeutic uses thereof
IN Friedman, Jeffrey M., New York, NY, UNITED STATES
Halaas, Jeffrey L., New York, NY, UNITED STATES
Gajiwala, Ketan, New York, NY, UNITED STATES
Burley, Stephen K., New York, NY, UNITED STATES
Zhang, Yiying, New York, NY, UNITED STATES
Proenca, Ricardo, Astoria, NY, UNITED STATES
Maffei, Margherita, New York, NY, UNITED STATES
PA The Rockefeller University (U.S. corporation)
PI US 2002107211 A1 20020808
AI US 2000-736084 A1 20001213 (9)
RLI Continuation of Ser. No. US 1995-485943, filed on 7 Jun 1995, PENDING
DT Utility
FS APPLICATION
LREP David A. Jackson, Esq., KLAUBER & JACKSON, 411 Hackensack Avenue, Hackensack, NJ, 07601
CLMN Number of Claims: 53
ECL Exemplary Claim: 1
DRWN 52 Drawing Page(s)
LN.CNT 6895
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of weight, and to the diagnostic and therapeutic uses to which such modulators may be put. In its broadest aspect, the present invention relates to the elucidation and discovery of nucleotide sequences, and proteins putatively expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight. The nucleotide sequences in object represent the genes corresponding to the murine and human ob gene, that have been postulated to play a critical role in the regulation of body weight and adiposity. Preliminary data, presented herein, suggests that the polypeptide product of the gene in question functions as a hormone. The present invention further provides nucleic acid molecules for use as molecular probes, or as primers for polymerase chain reaction (PCR) amplification, i.e., synthetic or natural oligonucleotides. In further aspects, the present invention provides a cloning vector, which comprises the nucleic acids of the invention; and a bacterial, insect, or a mammalian expression vector, which comprises the nucleic acid molecules of the invention, operatively

associated with an expression control sequence. Accordingly, the invention further relates to a bacterial or a mammalian cell transfected or transformed with an appropriate expression vector, and correspondingly, to the use of the above mentioned constructs in the preparation of the modulators of the invention. Also provided are antibodies to the ob polypeptide. Moreover, a method for modulating body weight of a mammal is provided. In specific examples, genes encoding two isoforms of both the murine and human ob polypeptides are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 14 OF 24 USPATFULL on STN
AN 2002:194880 USPATFULL
TI Reverse micelles for delivery of nucleic acids
IN Monahan, Sean D., Madison, WI, United States
Wolff, Jon A., Madison, WI, United States
Slattum, Paul M., Madison, WI, United States
Hagstrom, James E., Madison, WI, United States
Budker, Vladimir G., Madison, WI, United States
PA Mirus Corporation, Madison, WI, United States (U.S. corporation)
PI US 6429200 B1 20020806
AI US 1999-354957 19990716 (9)
PRAI US 1998-93227P 19980717 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Guzo, David
LREP Johnson, Mark K.
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 1480
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A complex is described for delivery to a cell comprising inserting a nucleic acid into a reverse micelle. The reverse micelle has the property to compact the nucleic acid for easier delivery. Other molecules are used to interact with the nucleic acid--micelle complex to further enhance delivery such as a **surfactant** having a disulfide bond.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 15 OF 24 USPATFULL on STN
AN 2002:174984 USPATFULL
TI Zymogen activation system
IN Darrow, Andrew, Lansdale, PA, United States
Qi, Jenson, Branchburg, NJ, United States
Andrade-Grodon, Patricia, Doylestown, PA, United States
PA Ortho-McNeil Pharmaceutical, Inc., Raritan, NJ, United States (U.S. corporation)
PI US 6420157 B1 20020716
AI US 1999-386642 19990831 (9)
RLI Continuation-in-part of Ser. No. US 1999-303162, filed on 30 Apr 1999
DT Utility
FS GRANTED
EXNAM Primary Examiner: Achutamurthy, Ponnathapu; Assistant Examiner: Moore, William W.
LREP Wallen III, John W.
CLMN Number of Claims: 16
ECL Exemplary Claim: 1
DRWN 37 Drawing Figure(s); 34 Drawing Page(s)
LN.CNT 3029
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB We describe the DNA sequences encoding an expression vector system that will permit, through limited proteolysis, the activation of expressed zymogen precursor of (S1) serine proteases in a highly controlled and reproducible fashion. The processed expressed protein, once activated, is rendered in a form amenable to measuring the catalytic activity. This catalytic activity of the activated form, is often a more accurate representation of the mature S1 **protease** gene product relative to the unprocessed zymogen precursor. Thus, this series of zymogen activation constructs represents a significant system for the analysis and characterization of serine **protease** gene products.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 16 OF 24 USPATFULL on STN
AN 2002:39906 USPATFULL
TI OB polypeptides and modified forms as modulators of body weight
IN Friedman, Jeffrey M., New York, NY, United States
Zhang, Yiying, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
PA The Rockefeller University, New York, NY, United States (U.S. corporation)
PI US 6350730 B1 20020226
AI US 1995-488223 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995 Continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994, now patented, Pat. No. US 5935810 Continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994, now patented, Pat. No. US 6001968
DT Utility
FS GRANTED
EXNAM Primary Examiner: Saoud, Christine J.
LREP Klauber & Jackson
CLMN Number of Claims: 27
ECL Exemplary Claim: 1
DRWN 65 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 7111
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of body weight, and to diagnostic and therapeutic uses of such modulators. In one of its broadest aspects, the present invention relates to nucleotide sequences corresponding to the murine and human OB gene, and two isoforms thereof, and proteins expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight and that have been postulated to play a critical role in the regulation of body weight and adiposity. The present invention further provides nucleic acid molecules for use as molecular probes or as primers for polymerase chain reaction (PCR) amplification. In further aspects, the present invention provides cloning vectors and mammalian expression vectors comprising the nucleic acid molecules of the invention. The invention further relates to host cells transfected or transformed with an appropriate expression vector and to their use in the preparation of the modulators of the invention. Also provided are antibodies to the OB polypeptide. Moreover, a method for modulating body weight of a mammal is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 17 OF 24 USPATFULL on STN
AN 2001:190931 USPATFULL
TI Modulators of body weight, corresponding nucleic acids and proteins, and diagnostic and therapeutic uses thereof

IN Friedman, Jeffrey M., New York, NY, United States
Zhang, Yiying, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
PA The Rockfeller University, NY, NY, United States (U.S. corporation)
PI US 6309853 B1 20011030
AI US 1995-483211 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995 Continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994, now patented, Pat. No. US 5936810 Continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994, now patented, Pat. No. US 6001968
DT Utility
FS GRANTED
EXNAM Primary Examiner: Yucel, Remy
LREP Klauber & Jackson
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 65 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 6074
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of body weight, and to diagnostic and therapeutic uses of such modulators. In its broadest aspect, the present invention relates to nucleotide sequences corresponding to the murine and human OB gene, and two isoforms thereof, and proteins expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight and that have been postulated to play a critical role in the regulation of body weight and adiposity. The present invention further provides nucleic acid molecules for use as molecular probes or as primers for polymerase chain reaction (PCR) amplification. In further aspects, the present invention provides cloning vectors and mammalian expression vectors comprising the nucleic acid molecules of the invention. The invention further relates to host cells transfected or transformed with an appropriate expression vector and to their use in the preparation of the modulators of the invention. Also provided are antibodies to the OB polypeptide. Moreover, a method for modulating body weight of a mammal is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 18 OF 24 USPATFULL on STN
AN 2001:75154 USPATFULL
TI Method for isolation DNA
IN Gautsch, James W., Solana Beach, CA, United States
Saghbini, Michael G., San Diego, CA, United States
Lippman, David A., San Marcos, CA, United States
Dana, Richard C., Escondido, CA, United States
PA Biol01, Inc., Carlsbad, CA, United States (U.S. corporation)
PI US 6235501 B1 20010522
AI US 1997-937905 19970925 (8)
RLI Continuation of Ser. No. US 1995-388504, filed on 14 Feb 1995, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Prats, Francisco
LREP Fitting, Thomas
CLMN Number of Claims: 37
ECL Exemplary Claim: 1
DRWN 14 Drawing Figure(s); 11 Drawing Page(s)
LN.CNT 1576
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention describes a method for the isolation of components from samples, particularly large molecular weight DNA from biological samples. The method involves the application of controlled oscillatory mechanical energy to the sample for short periods of time of about 5 to 60 seconds to lyse the sample and release the component(s) from the sample, followed by standard isolation methods. In preferred embodiments, the method includes the use of a spherical particle for applying the mechanical energy.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 19 OF 24 USPATFULL on STN
AN 2000:128480 USPATFULL
TI Nucleic acid primers and probes for the mammalian OB gene
IN Friedman, Jeffrey M., New York, NY, United States
Zhang, Yiying, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
Maffei, Margherita, New York, NY, United States
PA The Rockfeller University, NY, United States (U.S. corporation)
PI US 6124448 20000926
AI US 1995-488208 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995 which is a continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994, now patented, Pat. No. US 5935810 which is a continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994
DT Utility
FS Granted
EXNAM Primary Examiner: Railey, II, Johnny F.
LREP Klauber & Jackson
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 61 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 7089
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of weight, and to the diagnostic and therapeutic uses to which such modulators may be put. In its broadest aspect, the present invention relates to the elucidation and discovery of nucleotide sequences, and proteins putatively expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight. The nucleotide sequences in object represent the genes corresponding to the murine and human ob gene, that have been postulated to play a critical role in the regulation of body weight and adiposity. Preliminary data, presented herein, suggests that the polypeptide product of the gene in question functions as a hormone. The present invention further provides nucleic acid molecules for use as molecular probes, or as primers for polymerase chain reaction (PCR) amplification, i.e., synthetic or natural oligonucleotides. In further aspects, the present invention provides a cloning vector, which comprises the nucleic acids of the invention; and a bacterial, insect, or a mammalian expression vector, which comprises the nucleic acid molecules of the invention, operatively associated with an expression control sequence. Accordingly, the invention further relates to a bacterial or a mammalian cell transfected or transformed with an appropriate expression vector, and correspondingly, to the use of the above mentioned constructs in the preparation of the modulators of the invention. Also provided are antibodies to the ob polypeptide. Moreover, a method for modulating body weight of a mammal is provided. In specific examples, genes encoding two isoforms of both the murine and human ob polypeptides are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 20 OF 24 USPATFULL on STN
AN 2000:128471 USPATFULL
TI OB polypeptide antibodies and method of making
IN Friedman, Jeffrey M., New York, NY, United States
Zhang, Yiying, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
PA The Rockefeller University, New York, NY, United States (U.S. corporation)
PI US 6124439 20000926
AI US 1995-488214 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995 which is a continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994 which is a continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994
DT Utility
FS Granted
EXNAM Primary Examiner: Draper, Garnette D.
LREP Klauber & Jackson
CLMN Number of Claims: 27
ECL Exemplary Claim: 1
DRWN 68 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 6777
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of body weight, and to diagnostic and therapeutic uses of such modulators. In its broadest aspect, the present invention relates to nucleotide sequences corresponding to the murine and human OB gene, and two isoforms thereof, and proteins expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight and that have been postulated to play a critical role in the regulation of body weight and adiposity. The present invention further provides nucleic acid molecules for use as molecular probes or as primers for polymerase chain reaction (PCR) amplification. In further aspects, the present invention provides cloning vectors and mammalian expression vectors comprising the nucleic acid molecules of the invention. The invention further relates to host cells transfected or transformed with an appropriate expression vector and to their use in the preparation of the modulators of the invention. Also provided are antibodies to the OB polypeptide. Moreover, a method for modulating body weight of a mammal is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 21 OF 24 USPATFULL on STN
AN 2000:44077 USPATFULL
TI OB polypeptides as modulators of body weight
IN Friedman, Jeffrey M., New York, NY, United States
Zhang, Yiying, New York, NY, United States
Proenca, Ricardo, Astoria, NY, United States
PA The Rockefeller University, United States (U.S. corporation)
PI US 6048837 20000411
AI US 1995-485942 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1995-438431, filed on 10 May 1995 which is a continuation-in-part of Ser. No. US 1994-347563, filed on 30 Nov 1994 which is a continuation-in-part of Ser. No. US 1994-292345, filed on 17 Aug 1994
DT Utility
FS Granted

EXNAM Primary Examiner: Draper, Garnette D.
LREP Klauber & Jackson
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 35 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 7390
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates generally to the control of body weight of animals including mammals and humans, and more particularly to materials identified herein as modulators of body weight, and to diagnostic and therapeutic uses of such modulators. In its broadest aspect, the present invention relates to nucleotide sequences corresponding to the murine and human OB gene, and two isoforms thereof, and proteins expressed by such nucleotides or degenerate variations thereof, that demonstrate the ability to participate in the control of mammalian body weight and that have been postulated to play a critical role in the regulation of body weight and adiposity. The present invention further provides nucleic acid molecules for use as molecular probes or as primers for polymerase chain reaction (PCR) amplification. In further aspects, the present invention provides cloning vectors and mammalian expression vectors comprising the nucleic acid molecules of the invention. The invention further relates to host cells transfected or transformed with an appropriate expression vector and to their use in the preparation of the modulators of the invention. Also provided are antibodies to the OB polypeptide. Moreover, a method for modulating body weight of a mammal is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 22 OF 24 USPATFULL on STN
AN 97:89070 USPATFULL
TI Treatment of paraffin embedded tissue for gene analysis
IN Wang, Lu, Amagasaki, Japan
Hirayasu, Kazunari, Amagasaki, Japan
PA Wako Pure Chemical Industries, Ltd., Osaka, Japan (non-U.S. corporation)
PI US 5672696 19970930
AI US 1995-498775 19950705 (8)
PRAI JP 1994-177578 19940706
DT Utility
FS Granted
EXNAM Primary Examiner: Kunz, Gary L.
LREP Armstrong, Westerman, Hattori, McLeland & Naughton
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 6 Drawing Figure(s); 6 Drawing Page(s)
LN.CNT 1245
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Rapid and easy preparation of a sample for a gene analysis or high-purity nucleic acid suitable for gene amplification especially, for example, by the PCR method is made possible by a process for treating a paraffin-embedded tissue sample to be used for a gene analysis, which comprises heating an aqueous suspension containing a **surfactant** having a protein-denaturational action and a deparaffinized tissue sample obtained from a paraffin-embedded tissue sample at 60° C. or higher, or the above-mentioned process which further comprises reacting the heat-treated aqueous solution with a **protease**, or the above-mentioned process which further comprises reacting the heat-treated aqueous solution with a **protease**, mixing the resulting reaction solution with a solution containing an organic compound having a protein-denaturational action other than the aforesaid **surfactant**, and precipitating nucleic acid from the resulting reaction solution by addition of an alcohol.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 23 OF 24 USPATFULL on STN
AN 90:11264 USPATFULL
TI Process for rapid isolation of high molecular weight DNA
IN Hewitt, Peter L., Andover, MA, United States
PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)
PI US 4900677 19900213
AI US 1986-911808 19860926 (6)
DT Utility
FS Granted
EXNAM Primary Examiner: Kepplinger, Esther M.
LREP Frank, George A.
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 795
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A procedure for isolating high molecular weight nucleic acids utilizing a mixture of lytic enzymes and a chaotropic agent to complete protein denaturation and dissociation from nucleic acids is provided. The nucleic acids so obtained are useful for restriction enzyme analysis and DNA probe hybridization.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 24 OF 24 USPATFULL on STN
AN 82:42468 USPATFULL
TI Chromatographic process for enzyme purification
IN Johnson, Richard A., Clinton, IA, United States
Lloyd, Norman E., Clinton, IA, United States
PA Nabisco Brands, Inc., New York, NY, United States (U.S. corporation)
PI US 4347322 19820831
AI US 1981-224590 19810112 (6)
DT Utility
FS Granted
EXNAM Primary Examiner: Naff, David M.
LREP Kornutik, Richard, Conzett, Robert A., Wyzan, Henry S.
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 602
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Enzyme purification is carried out by contacting an impure liquid enzyme preparation containing enzyme and soluble impurities with an ion exchange material in a column to adsorb both the enzyme and impurities by the ion exchange material, adding an additional amount of the impure liquid enzyme preparation whereby the soluble impurities therein are preferentially adsorbed by the ion exchange material and the adsorbed enzyme is displaced from the ion exchange material to produce a purified liquid enzyme preparation containing higher enzyme activity than before purification. The purified enzyme is more highly adsorbed by ion exchange material when immobilizing the enzyme.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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